Montana Comprehensive Assessment System (MontCAS, Phase 2)

Criterion-Referenced Test (CRT)

COMMON CONSTRUCTED-RESPONSE ITEM RELEASE
MATHEMATICS, GRADE 6

2008





OFFICE OF PUBLIC INSTRUCTION

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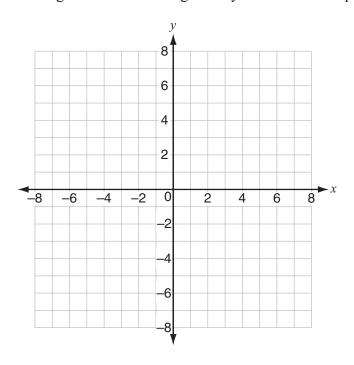
Mathematics

Session 1 (No Calculator)

You may NOT use a calculator during this session.

Write your answer in the space provided for it in your Student Response Booklet. Show all of your work.

23. Copy and label the coordinate grid below on the grid in your Student Response Booklet.



- a. These are the coordinates of $\triangle MNP$.
 - *M* (4, −5)
 - *N* (2, –2)
 - *P* (6, 0)

Draw and **label** \triangle *MNP* on the coordinate grid in your Student Response Booklet.

- b. On the same coordinate grid, translate (slide) \triangle MNP 1 unit left and 6 units up.
 - **Draw** the translated triangle.
 - **Label** the vertices *RST*.
- c. On the same coordinate grid, reflect (flip) $\triangle RST$ over the y-axis.
 - **Draw** the reflected triangle.
 - Label the vertices XYZ.

Scoring Guide

Score	Description
4	9 points
3	7–8 points
2	4–6 points
1	1–3 points
0	0 points
Blank	No response.

Scoring Notes

Part a: 3 points for correct answers, see sample response

OR

1 point for each correctly plotted vertex of the triangle

Part b: 3 points for correct answers, see sample response (3, 1), (1, 4), (5, 6)

OR

1 point for each correctly plotted vertex of the triangle

Part c: 3 points for correct answers, see sample response (-3, 1), (-5, 6), (-1, 4)

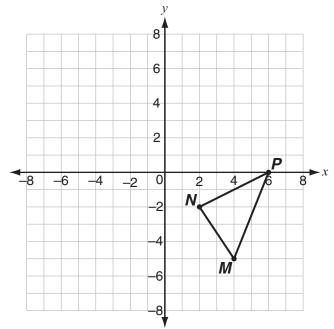
1 point for each vertex correctly reflected over the *y*-axis

or

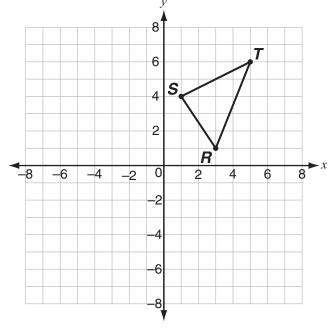
1 point for correctly reflecting **all** vertices over the *x*-axis

Sample Response:

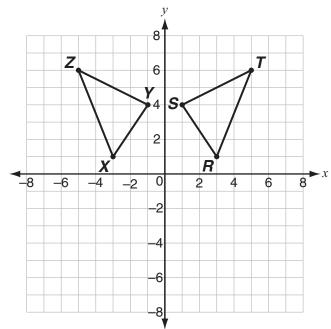
Part a:

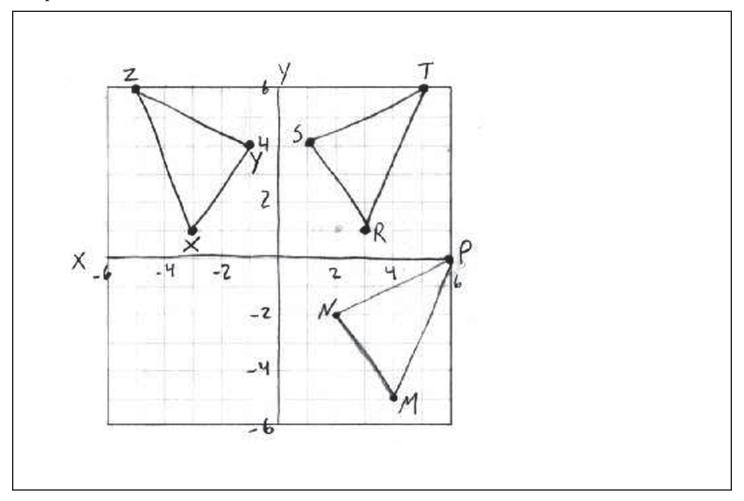


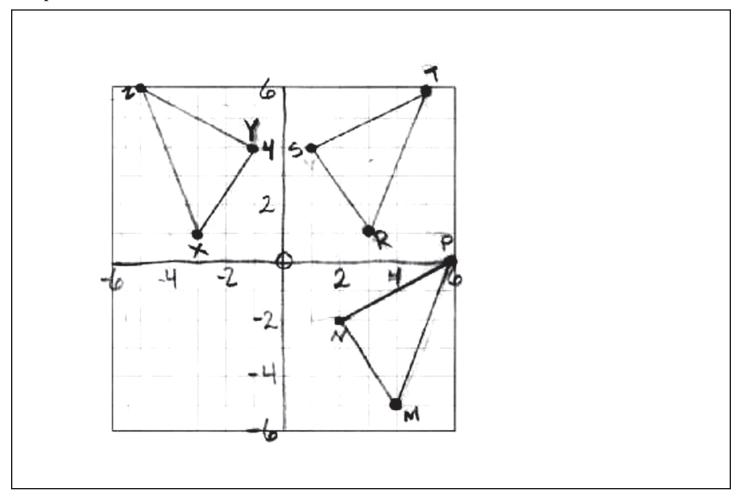
Part b:

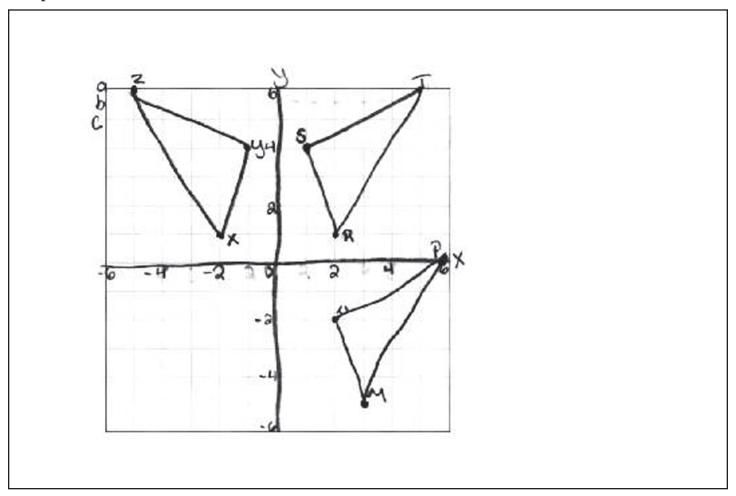


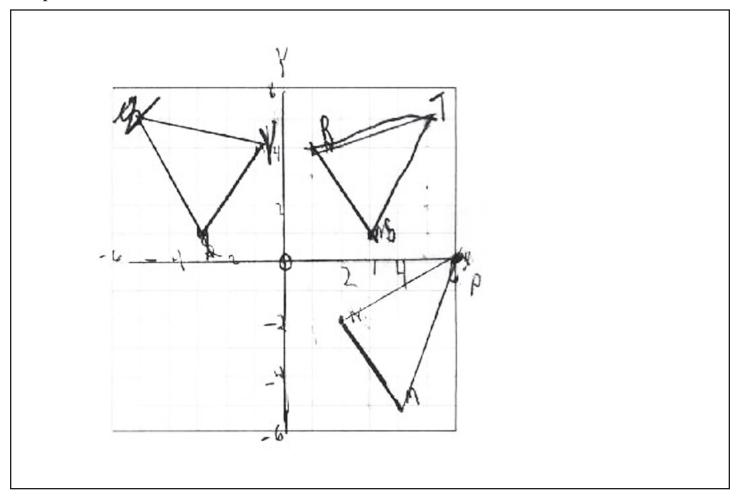
Part c:

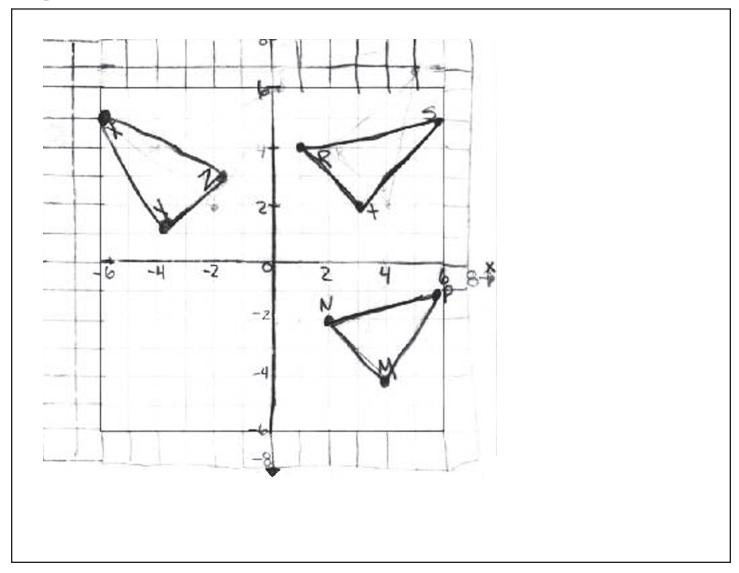


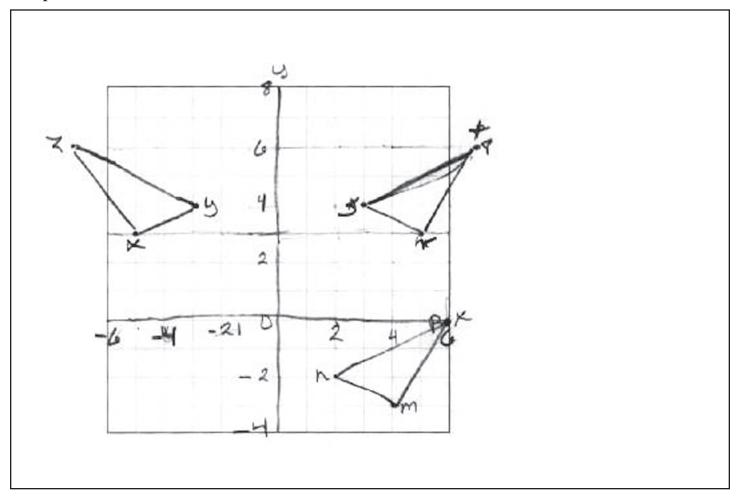


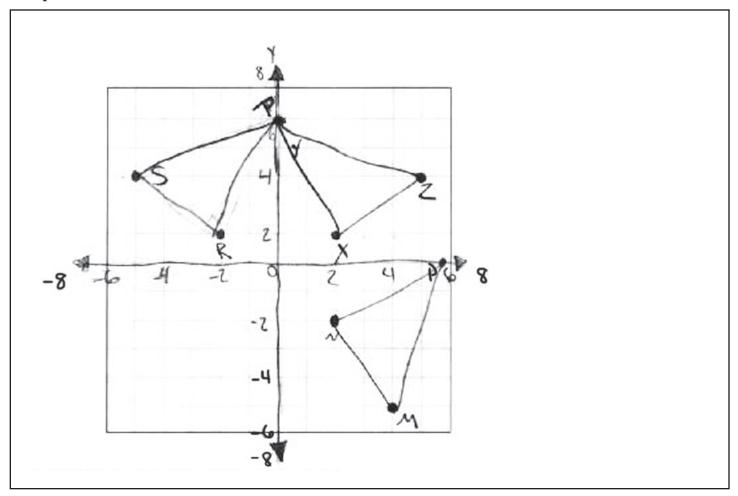












Sample 4

A. They're the dark dots: .

B. They're the medium dots: .

C. They're the light dots: . 2

